

Date: Wed, 14 Jul 93 15:08:38 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #854  
To: Info-Hams

Info-Hams Digest                      Wed, 14 Jul 93                      Volume 93 : Issue    854

Today's Topics:

                    Altitude data needed.  
                    CW continued  
                    FT530 Tone Burst  
How to find the answers to frequently-asked questions about Ham Radio  
                    Kenwood TH-28A and TH-78A  
                    machine-generated CW  
New Ticket, need advice on 2m HTs  
                    test  
                    TS-50

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 14 Jul 93 20:13:57 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Altitude data needed.  
To: info-hams@ucsd.edu

Andy Warner writes - "  
I've created a small (only the state of Minnesota) database  
mapping ZIP+4 codes onto 6 character grid squares. While I  
have access to the lat/long data, I can't make that directly  
available - I thought it would be nice to provide altitude  
info, if that was at all possible - does anyone know how  
I might locate this information (preferably on the  
Internet) ?"

I've obtained both lat/long and altitude data from geodetic survey maps. In my area (Los Angeles), the public libraries have the maps on file. Perhaps you could check your library and if not available there, perhaps the Yellow Pages will reveal a map store in your area that carries or has access to geodetic survey maps.

73

Hugh Wells, W6WTU

-----  
Date: Wed, 14 Jul 1993 16:14:53 GMT  
From: olivea!sgigate!odin!chuck.dallas.sgi.com!adams@ames.arpa  
Subject: CW continued  
To: info-hams@ucsd.edu

Gang,

thanks for the nice responses to my posting.

first: the world record for the reception of morse is 75.2 wpm set by Ted R. McElroy at the Asheville Code Tournament in Asheville, NC on July 2, 1939.

last night, while looking this up in the Guinness Book of Records, i did some calculating. using PARIS (50 elements in length) as the standard word length, at 72.5 wpm a dit is 15.957 milliseconds in length. round this to 16 ms. at a tone of 1,000 Hz, this is 16 cycles. allowing 2.5 ms rise time (this is what i use when i make tapes and generate code on my workstation instead of the 5 ms recommended and used by the ARRL on their tapes) you lose a cycle or two. now you're down to 12 or cycles per dit. i think you're almost to the edge of the world. there may be a few cw ops that can do 80 wpm without writing it down.

someone on the net had done quite a bit of research on how the US govt trained cw ops for military service. does this individual or anyone else have the text that was sent on July 2, 1939? at one time a word was 4 critters (letters to you non-texans ;-) ) instead of the 5 now used. was this the case in 1939? inquiring minds want to know. i've written to Guinness to find out. should be on record somewhere. i knew Soupy Groves from west texas before he passed on to the great shack in the sky, and he was one of the participants in that great test in 1939. Soupy beat me in the midland swapfast cw test twice before he retired from it. the guy was good. he was probably second in the world to Ted. he had some interesting stories about 'those days'.

the reason for the posting is to correct some crap before it gets spread

too far. Dave Ingram, K4TWJ, in "Keys, Keys, Keys" (and it's an interesting book) on page 14 he gives the world record at 77 wpm. NOT. NO WAY.

probably the best man today to beat the record is Harry Lewis, W7JWJ, Western Washington SCM. i think he was one critter off his last try for a world record of 78 wpm.

if you can get your speed to 30 wpm you'll be in the top 10%. 40 wpm will probably get you into the top 2%. would be an interesting statistic to get. 50% probably do 20 wpm or did at one time. ;-) :-)

someone asked about letter vs word recognition. at any speed you recognize each character. it's just how you put them together consciously. did you know that at the following speeds you have the following time to recognize the critter before the next one starts?

70 wpm	171 ms
60 wpm	200 ms
50 wpm	240 ms
40 wpm	300 ms
30 wpm	400 ms
20 wpm	600 ms
10 wpm	1200 ms

darn it, isn't math just wonderful. 5 critters per word gang. 60 seconds per minute. the rest is left as an exercise for the student.

ok. now quiz time.

1. when should you get away from the Farnsworth spacing?
2. what does the rise and fall times for computer generated code look like? Supermorse? others? PC vs. Mac vs. ...? i use a DSP processor in an SGI workstation. it's generated at 48KHz rate and it's a pure sine wave with shaped 2.5ms rise and fall times. compare this with the cw waveforms shown in the ARRL Handbook. close? anychance of being close?
3. do you use Supermorse or whatever to generate tapes?

darn it. i should write a book. ARRL interested? anybody interested? i didn't think so..... ;-)

back to your regular programming..... dit dit

WAIT: forgot. the world record for sending with a straight key is 35 WPM set on November 9, 1942 by Harry A. Turner a Camp Crowder MO. He was a member of the Army Signal Corp. talk about cramps! do this for two or three minutes. ok. i'm outta here.....

--

"Be not too hard for life is short and nothing is given to man." - J. Baez

Chuck Adams, K5FO - CP60  
adams@sgi.com

-----  
Date: 14 Jul 1993 14:44:00 GMT  
From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!noc.near.net!  
jericho.mc.com!fugu!levine@network.UCSD.EDU  
Subject: FT530 Tone Burst  
To: info-hams@ucsd.edu

In article 2C43B387@cerberus.shu.ac.uk, R.G.Harris@sheffield-hallam.ac.UK (Harris, Bob, G.) writes:

>KD1GG writes that as well expanding the coverage of the FT530, it is possible  
>to take the US version and enable the 1750Hz tone burst.

>

>This is the news that I have been waiting for! I want to get one of these  
>but object to paying the European price which is some 50% higher than in the  
>US. If I can buy one Stateside and merely enable the tone burst that seems  
>like a nice solution to me.

>

>Can someone post the mod, send it to me on email or tell me where to find it  
>in an archive?

>

>Thanks in advance

>

>Bob Harris G4APV R.G.HARRIS@SHU.AC.UK

>

>

The Mod sheet I got from HRO 1 week ago says to put a solder jumper  
across pad 12 to enable tone burst. If you want to have a copy  
I will photocopy the sheet for you if you send me a sase, or an  
your case just an IRC.

KD1GG

-----  
Date: 14 Jul 93 09:44:10 GMT  
From: pacbell.com!rtech!amdahl!amdahl!uts.amdahl.com@network.UCSD.EDU  
Subject: How to find the answers to frequently-asked questions about Ham Radio  
To: info-hams@ucsd.edu

Posted-By: auto-faq 2.4  
Archive-name: ham-faq-ptr

## How to find the Rec.radio.amateur.misc Frequently Asked Questions list

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This article will tell you how to find the answers to frequently-asked Questions (FAQ) from rec.radio.amateur.misc. The FAQ articles are posted on the 7th of each month. This article is posted on the 14th, 21st, and 28th of every month as a reminder of where to find the FAQ.

The FAQ articles are intended to summarize some common questions on the rec.radio.amateur.misc newsgroup and Info-Hams mail list as well as to help beginners get started.

Besides the monthly posting, the FAQ is always available via anonymous FTP and from e-mail servers. This article contains instructions for obtaining a copy of the FAQ. It also contains the table of contents from the FAQ so that you know which questions are covered by it.

Please provide a copy of the FAQ to any new or soon-to-be Hams you know.

Regular FAQ postings can help save network bandwidth and maintain a good signal-to-noise ratio in the newsgroup. However, they can't do it alone - you, the reader, have to use them. If you are a new user, please print and review the FAQ articles and look at the instructions in the news.newusers newsgroup before posting any articles. If you are an experienced user, please help by refraining from answering frequently-asked questions on the newsgroup if they are already answered by the FAQ articles. Instead, send e-mail to the user who asked the question. (It will be helpful if you include the part of the FAQ that answers their question, but not the whole thing.)

## --How to obtain a current copy of the FAQ-----

There are 3 ways to obtain a copy of the FAQ.

- 1) NetNews
- 2) Anonymous FTP
- 3) An Electronic Mail Server

### Option #1: NetNews

-----

If you are familiar enough with NetNews to look through previous articles on your system, Option #1 above may be the easiest for you. The FAQ is posted so that it should not expire from your site's news spool until the next one is posted. Unfortunately, some news administrators do not honor the expiration dates meant to preserve the FAQ.

Look in rec.radio.amateur.misc, rec.radio.info, rec.answers, or news.answers.

If the FAQ has expired at your site, try Option #2 (and ask your news administrator to honor expiration dates for articles cross-posted to news.answers if he/she can.)

#### Option #2: Anonymous FTP

-----  
Anonymous FTP uses the File Transfer Protocol. It is only available to sites which are directly connected to the Internet. If you don't know how to use FTP and can't find a friend to help you, continue to Option #3. If your site is not connected to the Internet, you should also continue to Option #3.

The following sites have copies of the FAQ:

site name & address	path to FAQ articles
ftp.amdahl.com	pub/radio/amateur/faq.[1-3].Z located in western USA, updated daily when changes occur
ftp.cs.buffalo.edu	pub/ham-radio/faq_ham_[1-3] located in eastern USA, updated monthly
rtfm.mit.edu	pub/usenet/news.answers/radio/ham-radio/faq/part* located in eastern USA, updated monthly contains news.answers archive - most UseNet FAQs are here
grivel.une.edu.au	pub/ham-radio/buffalo/ham-radio/faq_ham_[1-3] located in Australia, updated monthly (mirror of Buffalo)
nic.funet.fi	pub/ham/info/faq_ham_[1-3] located in Finland, updated monthly

Remember, when connecting to the remote system, use the login name of "anonymous" and, as a courtesy to the site administrators, your e-mail address for the password.

#### Option #3: Electronic Mail Server

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If you can't use Options 1 or 2, your only remaining option is electronic mail. You can retrieve a copy of the FAQ by sending a message to  
mail-server@rtfm.mit.edu

The body of your mail will contain a command for the mail server software. To get all of the FAQ (consisting of 70K of e-mail in 3 parts), place the following in the first line of your message:  
send usenet/news.answers/radio/ham-radio/faq/\*

Leave out the subject of your message because the mail server will ignore it.

--- begin sample mail message ---  
To: mail-server@rtfm.mit.edu  
From: me@here.org  
Date: Mon Aug 14 22:27:33 PDT 1995

send usenet/news.answers/radio/ham-radio/faq/\*  
--- end sample mail message ---

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  - \* Acknowledgements (6/93)
  - \* Notes on "Netiquette" (1/93)
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  - \* The Internet File Transfer Protocol (FTP) (6/93)
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- \*\* Where can I get ham radio software for my computer? (4/92)
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--Submitting changes for the FAQ-----

If you have comments or updates for the FAQ, send e-mail to  
hamradio-faq@amdahl.com

This will send mail to all the people on the FAQ editorial review group.

-----  
Date: 14 Jul 93 06:51:40 GMT

From: ogicse!hp-cv!sdd.hp.com!nobody@network.UCSD.EDU

Subject: Kenwood TH-28A and TH-78A



To: info-hams@ucsd.edu

In article <9307141903.AA01459@pbr322.ceingebi.unam.mx>  
gosset@pbr322.ceingebi.unam.MX (Guillermo Gosset) writes:  
>how good are the kenwood TH-28A and TH-78A. I find those models interes-  
>ting because of the alphanumeric message paging system. Any comments

Hola Guillermo!

I have a TH-78A and have been very happy with it. The reason I chose  
it over the others were the alphanumeric channel identifiers and  
the excellent industrial design. I have never used the paging feature.

The only problem I've had with it is some intermod. I live in the  
shadow of a mountain with many broadcast transmitters. CTCSS decode  
helps with this. I don't know how the Kenwood would compare with the  
other brands in this environment.

Hope this helps!

--

Craig Bosworth, KD6WQH  
Hewlett-Packard, San Diego Division  
craigb@sdd.hp.com 619 592-8609

-----  
Date: 14 Jul 93 12:30:13 EDT  
From: world!ksr!jfw%ksr.com@decwrl.dec.com  
Subject: machine-generated CW  
To: info-hams@ucsd.edu

sas@opus.xyplex.COM (Scott Sminkey - Sustaining Eng Group) writes:  
>I can't tell the difference between properly sent Morse code coming from  
>an iambic paddle and keyer, computer, straight key, or bug. If it's properly  
>sent, I don't expect to be able to tell the difference!

Even with a perfectly rhythmic fist, there are still a few personal touches  
that can creep in with a straight key; a burst of enthusiasm about a topic  
may cause the speed to creep up, HI gets sent fast enough to sound like a  
chuckle even if the rest of the QSO is 5WPM, and so on. That said, though,  
I've heard some "swings" that would curl your feedline :-). (And bugs, UGH!  
10WPM dahs and a plethora of 35WPM dits...)

John, WB7EEL

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Date: 14 Jul 93 19:16:53 GMT  
From: ogicse!uwm.edu!math.ohio-state.edu!darwin.sura.net!rsg1.er.usgs.gov!  
dgg.cr.usgs.gov!bodoh@network.UCSD.EDU  
Subject: New Ticket, need advice on 2m HTs  
To: info-hams@ucsd.edu

In article <BINGH.93Jul14120230@genie.cs.byu.edu>, bingh@genie.cs.byu.edu (Curtis N. Bingham) writes:

|>  
|> Howdy folks!  
|>  
|> I've been looking at a couple of HTs here, and would like to know if  
|> any might have a preference. (I'm sure that you have heard this  
|> before!!) There is a possibility that I may be relocating to the  
|> Silicon Valley area shortly. I've heard that people there have a  
|> problem with intermod using dual-banders, and so I figger that I need  
|> to stick with a single bander. (Anyone care to refute that?)  
|>...  
|> Curtis

--

I have not tried it around Silicon Valley, but the newer Alinco DJ-580T dual bander seem to have little or no intermod problems. I have one of the newer ones and have had no problems, even in areas which used to drive my scanners nuts. Others have also commented that the newer ones are better. I have heard that Alinco has both verified and denied that any production changes have been made to reduce intermod - perhaps they were making some other improvement and this was a nice side-effect? I have even added a high-gain duckie and have had no intermod problems...

++++  
+ Tom Bodoh - Sr. systems software engineer, Hughes STX, NOX?? (in the mail) +  
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +  
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

+  
+ "Welcome back my friends to the show that never ends!" EL&P  
+

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Date: Wed, 14 Jul 1993 13:47:16 GMT  
From: agate!howland.reston.ans.net!sol.ctr.columbia.edu!news.kei.com!news.oc.com!  
spssig.spss.com!feenix.metronet.com!marcbg@ames.arpa  
Subject: test  
To: info-hams@ucsd.edu

This is a test message, please disregard

--

Marc B. Grant, N5MEI | marcbg@feenix.metronet.com | 214/231-3998 (voice)  
P.O Box 850472 | marcbg@esy.com | 214/231-0025 (fax)  
Richardson, TX 75085 |

-----  
Date: Wed, 14 Jul 1993 13:57:04 GMT  
From: overload.lbl.gov!agate!howland.reston.ans.net!sol.ctr.columbia.edu!  
hamblin.math.byu.edu!news.byu.edu!news.kei.com!news.oc.com!spssig.spss.com!  
feenix.metronet.com!marcbg@dog.ee.lbl.gov  
Subject: TS-50  
To: info-hams@ucsd.edu

In article <1993Jul14.014035.17371@trl.oz.au> handers@rhea.trl.OZ.AU (Howard Anders) writes:

>Has anyone had any experience with the new \*small\* Kenwood TS-50 HF  
>mobile rig?? I'd love to buy one because they are so small and compact,  
>ideal for backpacking, portable, mobile use. However according to a review  
>I read in "Radio Communication" the Rx leaves a little bit to be desired &  
>the 3rd order intermod products appeared to be quite poor at only -16dB on  
>14 MHz!! Ranging to best case of about -24dB on the other bands.  
>I wonder if they are all like this, or was this just a one off, maybe a  
>faulty one?? Anyone else tested one? Has anyone used one on air??

Well, from my operating experience (several hours with one) I can say that while the receiver SOUNDS good (i.e., has good clarity, nice audio, etc.) it leaves something to be desired for sensitivity. Plus, many of the features one expects on a receiver are not available (notch, if shift).

For my money, I'd sacrifice size and get an Yeasu FT-890. This rig has a great receiver, built in tuner & keyer, and, with the tuner, costs less than the TD-50 with the tuner. It has adjustable IF shift, an RF notch filter (vs an AF on the TS-450), a very fast antenna tuner, and is quite small. The only thing that it doesn't have when compared to the TS-450 is the cability to select which filter you want for which mode. However, the 890 does allow installation of optional CW and SSB filters, but I find the built-in filters quite acceptable.

For a small car, maybe the TS-50 would be OK. However, see if you can fit the FT-890 in your vehicle - you won't be dissapointed.

My .02 worth!

Best 73, de ...

--

Marc B. Grant, N5MEI | marchbg@feenix.metronet.com | 214/231-3998 (voice)  
P.O Box 850472 | marchbg@esy.com | 214/231-0025 (fax)  
Richardson, TX 75085 |

-----

Date: Wed, 14 Jul 93 15:42:48 GMT  
From: mentor.cc.purdue.edu!noose.ecn.purdue.edu!en.ecn.purdue.edu!n9ljx@purdue.edu  
To: info-hams@ucsd.edu

References <1993Jul13.165106.1248@kocrsv01.delcoelect.com>,  
<1993Jul14.123531.232@rsg1.er.usgs.gov>, <22106t\$rho@panix.com>u  
Subject : Re: America's Technology Store (was: new Radio Shack HT)

In article <22106t\$rho@panix.com> schuster@panix.com (Michael Schuster) writes:

>Someone on the Fidonet SW echo once posted a neat strategy for disposing of  
>Radio Shaft salesdroids.

>

>He said he carries in his pocket the most ancient, corroded, unusual looking  
>piece of hardware extracted from a turn-of-the-century radio. Whne hounded  
>by the sales type, he extracts this from his pocket, shoves it in his face, and  
>asks, "Do you have a replacement for THIS?". The salesdroid walks away mumbling  
>and he can then browse the store in peace.

>

>

>--

>Mike Schuster | schuster@panix.com | 70346.1745@CompuServe.COM

Unfortunately they are a little more aggressive around here. I recently went  
in looking for a replacement telescopic whip for an old Bearcat xtal scanner.  
The salespuppy told me they didn't carry that style and that what I really  
needed to do was buy a new scanner! What a deal..try to make a \$300 sale from  
someone who is looking to spend \$1.50!

--scott

--

Scott Stambaugh - N9LJX internet: n9ljx@ecn.purdue.edu  
Operations Supervisor, ADPC phone: 317 494 7946  
Purdue University  
West Lafayette, IN 47907-1061

-----

Date: 14 Jul 93 17:47:48 GMT  
From: meaddata!robertp@uunet.uu.net  
To: info-hams@ucsd.edu

References <2347@indep1.UUCP>, <21ucvb\$c3u@gopher.cs.uofs.edu>,  
<1993Jul13.164317.14482@rsg1.er.usgs.gov>:  
Subject : Re: Communities that unduly restrict Amateur Radio operations

In article <1993Jul13.164317.14482@rsg1.er.usgs.gov>, bodoh@dgg.cr.usgs.gov (Tom Bodoh) writes:

|> In article <21ucvb\$c3u@gopher.cs.uofs.edu>, bill@cs.uofs.edu (Bill Gunshannon) writes:

|> |> In article <2347@indep1.UUCP>, clifto@indep1.UUCP (Cliff Sharp) writes:

|> |> |> If they don't want me around when I'm getting the practice I need, when

|> |> |> I'm hooking up to the nets I'll need for emergencies and getting to know  
|> |> |> the people I'll be working with, then as far as I'm concerned they don't  
|> |> |> want me around when the tornado hits, either

|>

|> --

|> I was wondering about this the other night. I think that while most people  
|> have heard of ham radio, nobody but hams seem to know what it's about. Many  
|> think that it is simply worldwide communications on HF, some think that it's  
|> some type of CB and some equate it to shortwave listening. It seems that  
|> some type of public awareness campaign would be in order. I'm not sure how  
|> this could be presented to the public or how it would be funded, but such a  
|> campaign should briefly describe several aspects of the hobby and emphasize  
|> the public/emergency service functions. Perhaps a full page ad in one or two  
|> magazines such as Time or Newsweek or in major newspapers would help. TV  
|> spots would certainly be helpfull and perhaps could qualify as public service  
|> ads, unfortunately that would mean that they run late at night. Funding is  
|> certainly the major roadblock - perhaps the ARRL has looked into this...

|>

|> ++++++  
|> + Tom Bodoh - Sr. systems software engineer, Hughes STX, NOX?? (in the mail) +  
|> + USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +  
|> + Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

+

|> + "Welcome back my friends to the show that never ends!" EL&P

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-- A representative from ARRL came to a DARA (Dayton Amature Radio Association) just before HamVention. One of the questions asked of him was about the Public Relation firm ARRL hired, what had they done. He told us that a lot of good PR artcils were out and had been published. I took on the challange and searched for some of this PR. I found very little in the major newspapers, I have access to search several from around the country. I then searched newspapers, using Ham Radio, Amature Radio, ARRL(even spelled out ARRL) from 1990 to present, only a few articles were located. Mo  
stly to anounce classes or tests. Of course our colleagues in former Yugoslavia

have received great PR for their work. I can remember the news of the Alaska earthquake was first relayed by Amature Radio, they were heros and a Postage Stamp was even issued in their honor. ARRL needs to get that PR firm moving, get the word out, Amature Radio should not be considerd a nuisance.

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|Robert D. Penrod      |      Excess on occasion is      |
|Mead Data Central    |      Exhilarating                |
|P.O. Box 933         | It prevents moderation from |      robertp@meaddata.com
|Dayton, Ohio 45401   | acquiring the deadening      | ...!uunet!meaddata!robertp
|                      | effect of a habit.           |
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End of Info-Hams Digest V93 #854  
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